

Chronic Disease Indicators: Indicator Definition



Mortality from end-stage renal disease

Category:	Other Diseases and Risk Factors
Demographic Group:	All resident persons.
Numerator:	Deaths with International Classification of Diseases (ICD)-10 code N03–N05, N13.0–N13.3, N17–N19, N25–N26, N28.0, N28.8 (ICD-9 codes 581–588, 591, 593.8, and 593.9) as the underlying cause of death among residents during a calendar year.
Denominator:	Midyear resident population for the same calendar year.
Measures of Frequency:	Annual number of deaths. Annual mortality rate — crude and age-adjusted (standardized by the direct method to the year 2000 standard U.S. population, distribution 1*) — with 95% confidence interval.
Time Period of Case Definition:	Calendar year.
Background:	In 2001, >96,000 incident cases of end-stage renal disease (ESRD) were reported. Diabetes is the leading cause (44%) of ESRD, and hypertension is the second leading cause (26%).
Significance :	The complications of diabetes and hypertension, including ESRD, can be prevented through improved patient education and self-management, and provision of adequate and timely medical care, including blood glucose and blood pressure control.
Limitations of Indicator:	Because ESRD develops over a long period, years might pass before changes in behavior or clinical practice affect population incidence. Approximately one third of diabetes cases are undiagnosed.
Data Resources:	Death certificate data from vital statistics agencies (numerator) and population estimates from the U.S. Bureau of the Census or suitable alternative (denominator). http://wonder.cdc.gov
Limitations of Data Resources:	Causes of death and other variables listed on the death certificate might be inaccurate.
Healthy People 2010 Objectives:	No objective.

* See Klein RJ, Schoenborn CA. Age adjustment using the 2000 projected U.S. population. Hyattsville, MD: US Department of Health and Human Services, CDC, National Center for Health Statistics, 2001. Healthy people 2010 statistical notes, no. 20. <http://www.cdc.gov/nchs/data/statnt/statnt20.pdf>